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THE INDUSTRIOUS HEN

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One of the Prize Winning White Wyandottes bred and owned by Carrington Jones, Buntyn, Tenn.

Blair-Young Publishing Co.
INCORPORATED
Louisville-----Kentucky

W.J. SMITH ART STUDIO

THE Industrious Hen

Absorbing Poultry Ideas, Louisville, Ky.; Practical Poultry, Birmingham, Ala.; The Poultry Times, Norfolk, Va.; Southern Poultry Magazine, Nashville, Tenn.; The Poultry News, Bustleton, Pa.; Tennessee Poultry Journal, Lebanon, Tenn.; The National Poultry Breeder, Owensboro, Ky.; Everybody's Poultry Journal, Nashville, Tenn.; The Leghorn Journal, Appomattox, Va.

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"Buckeye Egg Dater," having name, date and place, for marking eggs, with indelible ink that does not wash off the egg or injure eggs for hatching; \$4.50 postpaid. Buckeye Rubber Stamp Works, Dept. 17, Dayton, Ohio. 4-2t

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Thirty-five Varieties. Fine Chickens, Ducks, turkeys, stock and eggs. Low prices. Big new illustrated circular free. You get one. It will please you. Jno E. Heatwole, Harrisonburg, Va. 3-3t

Kills Lice and Mites. I make a chicken powder that I have used eight years with good success. Kills lice and mites instantly. Good for little chicks and setting hens. Harmless to eggs. Costs about eight cents a pound to make. Receipt 25 cents silver. Guaranteed or money refunded. Mrs. Edna Crowl, Lane, Kans., R. No. 1. 5-3t

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My birds have won wherever shown. At Owensboro Poultry Show, 1914: 1st pen, 1st cock, 1st cockerel, 1st hen and 1st pullet, silver cup for best hen in show. 1915 Owensboro Show: Silver cup on champion cock bird, 2d hen and 2d male. Prices of eggs, choice, \$2 per 15, or \$3.50 per 30, \$6 per 50, or \$10 per 100. Utility \$1.25 per 15, or \$5 per 100.

Mrs. Tom H. Hayden, Locust Grove Poultry Yards, R. No. 6, Owensboro, Ky. Member National White Wyandotte Club

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For size, style, form and color, they are Standard of Perfection. Eggs only \$3.00 for fifteen.

DR. J. HOGAN BRAY

GREENVILLE,

KENTUCKY

BARRED PLYMOUTH ROCKS

with a record behind them, 46 ribbons, 6 silver cups, 2 gold specials and sweepstakes pullet at two shows is my record this season, 1915, at Bennettsville, Darlington and Sumter. Some good stock for sale. Eggs \$3.50 and \$5 per 13. Incubator eggs \$7 per 100. Write me your wants.

L. C. BREEDEN

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"Insure" my life and keep me well and strong by feeding me
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Guaranteed to raise every livable chick. Three weeks' feeding at a cent a chick.
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THE INDUSTRIOUS HEN

VOL. XII.

LOUISVILLE, KY., MAY, 1916

(Whole No. 134)

No. 11

THE DEVELOPMENT OF CHICKS.

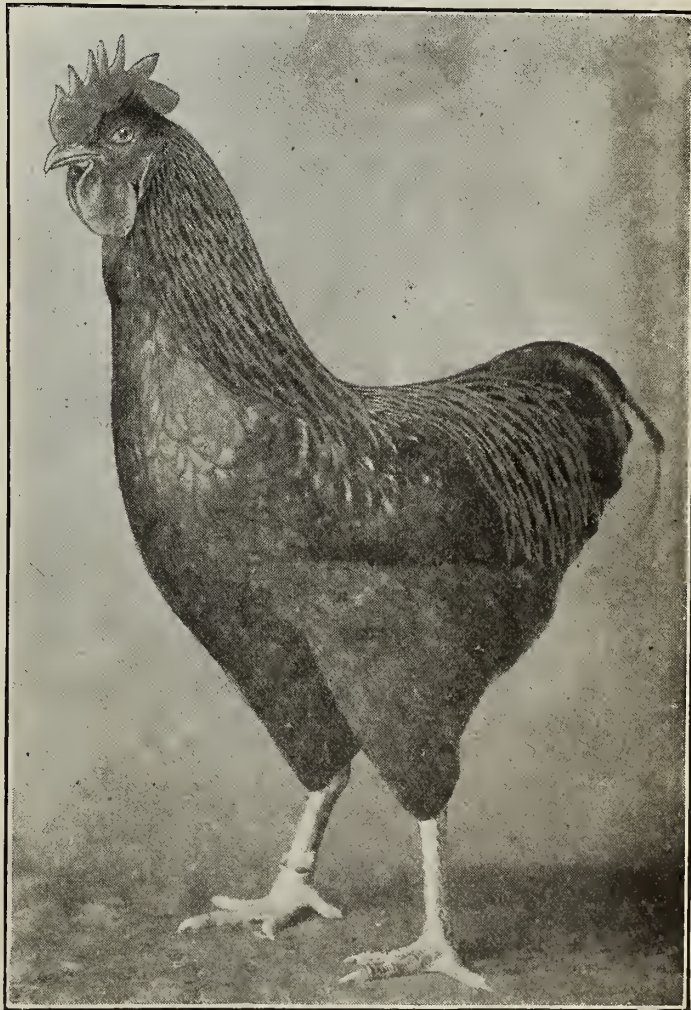
The Food and Attention you give the Chick from the Time it is Hatched Until Maturity, has a Great Deal to do with your Success, and Unless these Vital Points are Looked After you can not Expect to Produce Winners, Layers or Birds for the Market, Successfully.

By E. W. GOOD.

THERE are two objects in the culture of chicks, and it is well that these objects be kept separate in the feeding. The development of chicks for broilers constitute one object; growing them for maturity is the other. The most rapid growth and the most rapid laying on of fat cannot be accomplished by the same rations. The two objects mentioned call for different feeding plans. This is a matter that has been overlooked by too many poultrymen. Many have come to the conclusion that their chicks have been overfed, when the trouble lies in the formula. When one feeds for growth and fat, as in the case of broilers, trouble is invited. This arises from the fact that the two plans followed at the same time are antagonistic. When growth and fat are the object it is well to feed little and often. The food should be rather easily digested. For the first week of the chick's life, the rations may be the same, whatever the object. After that, a difference should be carefully observed. In general let it be advised that the rations for broilers should largely consist of soft foods. There should be just enough of tiny grains or cracked stuff given to induce gentle exercise. This will produce as rapid development in growth and fat as is consistent with health. The health of birds is paramount at all times. Take a lot of lousy, puny, undeveloped chicks and the broiler market will suffer for it. Broiler patrons demand plump, healthy chicks. The tendency now-a-days is to get broilers just as young as possible. But to cater to this tendency requires the greatest care on the part of the feeder. Human taste and requirements are no longer compatible. Whatever tastes the best is the go, regardless of its comparative merits.

It matters little what the chicks are fed, just so it is duly relished. In accordance with nature's way, they should be supplied with cereal-animal-green food rations. Should the hen steal her nest, the chances are that she would feed her young from the first on the triune diet mentioned. I doubt very much that she would wait forty-eight hours as is customarily directed. I have known the Leghorn to leave the nest with her brood before they were fully able to run. I am inclined to think that she then makes a mistake. Doubtless the lice have something to do with driving her from the nest prematurely. Moreover the matter of hunger may have something to do with it. The probabilities are that the hen would constitute a proper guide to feeding when she is properly cared for. Under this condition stealing her nest is out of the question. If started in a small way it would be perfectly safe to feed chicks beef scraps. A trace of beef meal may be mixed with their mash. This should be very gradually increased until they are a week old. After the first week chick-sized scraps may be fed from an open hopper. This will insure an abundance of animal food. For a growing and fattening food there is nothing better than corn meal, rolled oats, wheat middlings and wheat bran. Preceding, during and succeeding their moulting period a little oil may be included. This food should be thoroughly mixed and dampened with sweet skimmed milk. In the absence

of balanced rations, I should feed the first four mentioned in equal parts by measure. Feed the chicks three or four times daily. Scatter a little commercial chick feed in chaff for exercise twice daily, and any kind of green food reduced to chick size should be fed two or three times daily. Lawn clippings are ideal. For the benefit of those who may want to feed something more exact in quality, I have



First Partridge Rock Cockerel at Indianapolis Show, 1916.
Bred and owned by C. J. Loyd & Son, Greensburg, Ind.

figured the following, according to the nutritive ratio of 1 : 6 for broilers:

Corn meal	213	pounds
Bran	23.4	pounds
Middlings	22.1	pounds
Roll'd oats	19.6	pounds
Oil meal	9.5	pounds
Beef scraps	11.2	pounds

This makes a total of 298.8 pounds of ground feed. Mix

one pound of skimmed milk to two pounds of ground feed. This arrangement calls for an insufficient amount of animal food. So it is advisable to place some beef scraps in an open hopper. The green food and scratching grain will tend to widen the rations somewhat, but that will not materially affect it. It will be seen that corn meal forms the bulk of the mash. This will work to an advantage as it is so much relished by the chicks.

I shall submit the following formula for growing chicks at the ratio of 1:4. This is decidedly narrower than the former. Put the addition of scratching grains to be fed in greater abundance and the green food will widen it for rapid growth and supply sufficient warmth:

Corn meal	67	pounds
Bran	39.6	pounds
Middlings	37.8	pounds
Oil meal	4	pounds
Rolled oats	23.5	pounds
Beef scraps	18.4	pounds

After mixing the above, feed five parts of milk to eight parts of ground feed. If the milk does not dampen the mash sufficiently, a little water may be added. This mash should be fed twice daily. A quantity may be fed dry from an open hopper. A more liberal supply of scratch grain may be fed which will induce plenty of exercise and promote health.

Let me again distinguish between feeding for broilers and feeding for growth. The object in the former is to get the most rapid growth and the greatest plumpness in the shortest space of time. To accomplish this, the feed and exercise should be kept within proper limits. Too much exercise retards fattening, hence very little scratching grains are recommended. As to growth, the matter of exercise can not be overdone. If the chicks can be forced to move from sunrise to sunset, so much the better. Unless you can scatter the grain often daily, use an automatic feeder. According to size, at the end of three to five months the last formula should gradually give way to an egg-producing one.

In addition to correct feeding, keep your chicks free from lice, give them plenty of pure water, warm in winter and cool in summer. Chick-size charcoal should be accessible at all times. Place tiny grit in hopper and mix some with the mash. Keep eye on the droppings. If too loose, feed less oil meal. The bran and green food should keep chicks well regulated. I have included a little oil meal as it is so good for growing feathers. The above suggestions, with close attention, should insure satisfactory results in chick culture. Careful feeding and correct management should go hand in hand from shell to maturity.—Exchange.



First Hen, Chicago Coliseum, 1914. Owned by Paul W. Schultze, Laurel, Ind.

MARCH REPORT OF NATIONAL EGG LAYING CONTEST AT MOUNTAIN GROVE, MO.

Sixth National Contest to Begin November 1—Swat the Rooster on May 20—520 Hens in Contest Laid 10,756 Eggs, Highest Monthly Record Ever Made at This Place—White Plymouth Rock Hen Laid 31 Eggs in March—Black Orpingtons Win Cup for the Month.

By C. T. PATTERSON, Director Missouri State Poultry Experiment Station, Mountain Grove, Mo.

THE Sixth National Egg Laying Contest, to begin November 1, 1916, and continue for one year, will be held on the same grounds as the contest now in progress. The contest will be composed of sixty pens, three pens of each variety, the first three applications received at the experiment station in each variety being the ones accepted. Each pen is to be composed of five pullets and one substitute, no males to be used in the pens. Complete rules governing the contest will be ready for distribution in the near future.

"Swat the rooster" on May 20 and sell infertile eggs during the summer. It insures greater profits to the producer, the dealer can handle them on a smaller margin, and the consumer gets better eggs to use which increases the demand. The presence of male birds in the flock does not increase egg production, but from two to three per cent of the females are injured by the males, which lowers the egg yield from the entire flock. Feeding the male birds after the breeding season is a useless expense. Many produce dealers pay more for roosters on "Swat the Rooster Day" in order to encourage their sale.

If an egg contains the fertilizing germ, proper heat is the principal factor which will cause the germ to grow. The summer temperature will cause the germ to develop and if it is chilled or killed in any way, it is the point where decomposition begins. If there is no germ in the egg there is no point for decomposition to set in except from an outside source. Therefore, infertile eggs are more satisfactory for all concerned. It should not be understood that infertile eggs should be kept longer or cared for improperly, for that would mean no improvement over old methods. Infertile eggs should be marketed just as often and cared for just as carefully as fertile eggs which will insure an improved produce going on to the market. All eggs should be sold on the loss-off basis—i. e., all eggs should be candled and only the good eggs paid for. It will be seen that ten dozen infertile eggs, all good, will bring more money than twelve dozen fertile eggs if three dozen are candled out, being bad.

If you have a valuable male bird which has proven to be a good breeder, don't sell him, but place him in a pen with half a dozen of the best hens and late hatching may be done from this pen. Don't keep any males in the flock during the summer.

The contest made a good record in March. The highest record in 1912 was in April, all hens averaging approximately nineteen eggs each. During 1913, the highest month's record was in April, with an average of 18.5 eggs each; 1914, the highest month's record was in March, with an average of 20.5 eggs each; 1915, the highest month's record was in March, with an average of 20 eggs each, and during March, 1916, 520 hens laid 10,756 eggs, or approximately 20.7 eggs each. One point which is very noticeable is the equal record made by many hens. Pen 11, Single Comb White Leghorns, all five hens laid 22 eggs each during the month.

It has been noted many times that the hen which produces more than 20 eggs in one month usually makes a good record for the year. One hundred forty-two hens in the contest produced 24 or more eggs during March, while only fifty produced 12 or less. This would indicate that a number of hens should make good records during the year.

Hen 1 in pen 74, White Plymouth Rock, laid 31 eggs during March, which is an unusually long cycle.

Pen 82, Black Orpingtons, Indiana, won the cup for March by laying 136 eggs.

The pens making the five highest records for March are as follows:

Pen.	Eggs.
82 Black Orpingtons, Indiana	136
73 White Plymouth Rocks, North Dakota	130
74 White Plymouth Rocks, Missouri	130
83 Black Orpingtons, Missouri	129
30 Single Comb White Leghorns, Missouri	128
56 Single Comb Rhode Island Reds, Iowa	127
75 White Plymouth Rocks, Washington	127

The pens making the ten highest records for five months are as follows:

Pen.	Eggs.
75	White Plymouth Rocks, Washington
59	Rose Comb Rhode Island Reds, Missouri
82	Black Orpingtons, Indiana
69	Barred Rocks, Missouri
49	White Wyandottes, Michigan
50	White Wyandottes, Missouri
25	Single Comb White Leghorns, Washington
102	Oregons, Oregon
56	Single Comb Rhode Island Reds, Iowa
17	Single Comb White Leghorns, Texas

The hens making the five highest records for five months are as follows:

Hen.	Pen.	Eggs.
4	75	White Plymouth Rock, Washington
2	82	Black Orpington, Indiana
3	25	Single Comb White Leghorn, Washington
2	59	Rose Comb Rhode Island Red, Missouri
5	59	Rose Comb Rhode Island Red, Missouri
1	75	White Plymouth Rock, Washington

HOW THE FARMER CAN PRODUCE EGGS SATISFACTORY TO THE CONSUMER.

He Can Increase the Demand for His Product Materially by Carefully Grading and Picking His Eggs Before Marketing Them, as Outlined in the Following Article.

By B. F. KAUPP, Poultry Investigator and Pathologist, North Carolina Experiment Station, West Raleigh, N. C.

IT IS necessary to produce uniform colored eggs and to produce eggs of large size. To do this it is necessary to keep one breed and that breed pure. Do not cross the breeds as it does not produce a uniform product and is disastrous. Do not send eggs to market that are dirty, too small, thin shelled, from stolen nests or that have been set on. Keep your broody and setting hens away from layers. If you do not want to set the hen when she becomes broody, make a coop two feet by three feet of slats or scrap lumber and put her in this coop till she no longer wants to set. If you want to set her, move her to a vacant room or a combination setting and brooding coop. Remember, saying a product is good does not make it so. If you send to market only eggs known to be absolutely fresh, your eggs will soon be called for. On the other hand, if you place among these eggs those from stolen nests, that have been under broody hens, eggs that are dirty and eggs kept on hand for a long time, your eggs will not command the highest prices, consequently, your returns will not be what they should be.

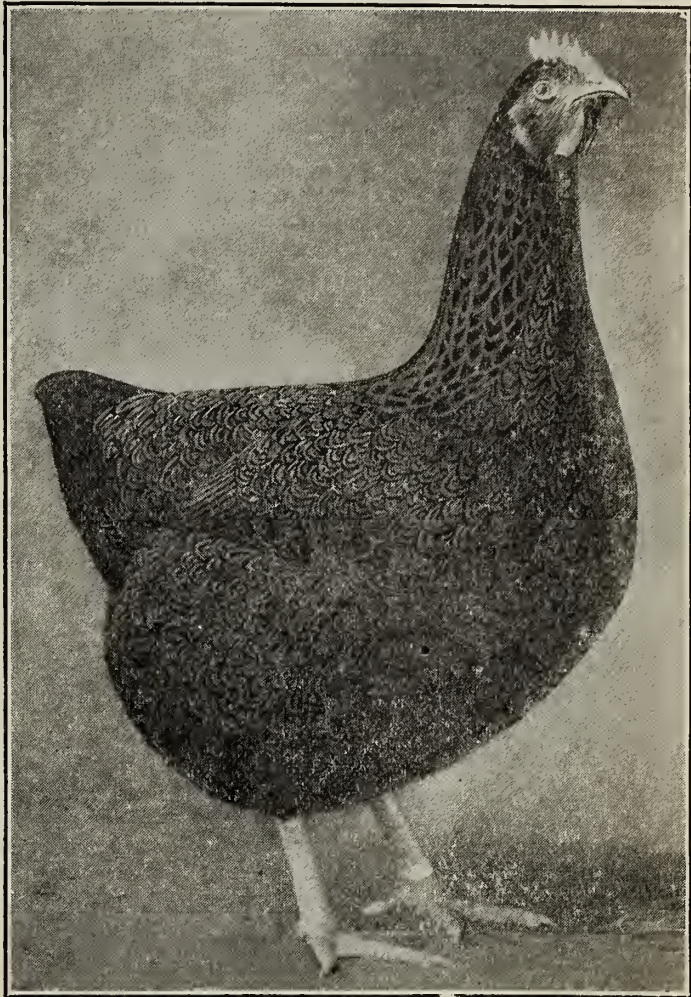
Eggs should be gathered once a day in the fall and winter and twice a day in the warmer part of the year. The

eggs should be kept in a cool, dry room away from bad odors and dust.

Collecting Eggs on Cream Routes.

Eggs too small, checks and weak shell, dirty eggs or eggs from stolen nests or that have been set on should be rejected. These eggs should be used on the farm as they are sure to injure the trade. You cannot build up a first class trade and accept this grade of eggs.

Eggs received by the cream route wagon should be graded into whites and browns. One case may be used for the whites and one for the browns or one end of the case may be used for whites and the other end for browns. These eggs may be placed in cartoons holding twelve



Partridge Rock pullet, winner of many blues. Bred and owned by C. J. Loyd & Son, Greensburg, Ind.



Golden Buff Orpington hen, owned by Grainger & O'Brien, Jeffersonville, Ind. Mated, with seven others just as typy and all weighing ten pounds and over, to first prize cockerel at Kentucky State Show, Lexington. Breeders desiring to add size to the individuals of their flock would do well in getting a setting from this grand mating.

eggs each which may be obtained from the Continental Paper Bag Co., New York, N. Y., and other manufacturers. Or, the medium fillers may be used which may be obtained from the Star Egg Carrier & Tray Mfg. Co., Rochester, N. Y., or North Star Egg Case Co., Quincy, Ill. Cottonwood 3-16-inch veneer cases may be used, either the flush or the drop cleat. There are firms who collect egg cases and supply them wholesale for about six cents per case. The New York Egg Case Co., New York City, can furnish these.

Do not use dirty fillers. Discard all smeared and dirty fillers. There is a space of about one inch which allows of corrugated cardboard or excelsior pads to fill in the space on the top and bottom to act as buffers. If loose excelsior or other material is used it must be spread very evenly and the top of the lid must rest level and not bulge upward.

Eggs may be supplied to the larger cities of the State or to the resorts in the mountains or in Florida or sent to the large markets. Eggs sell at the large markets, as New York and Boston, according to grade and quality. Eggs strictly fresh; that is, collected and cared for properly and weighing above 26 ounces to the dozen, sell as extra first near by hennery. The next grade as extra firsts, next extras, and next firsts. Those eggs weighing less than 26 ounces to the dozen sell as seconds.

In addition to grading the eggs on the milk route into whites and browns it is well to grade them into firsts and seconds. For practical purposes a gauge may be made from a piece of wood, two inches wide, four inches long and three-fourths inch thick. In the side of this saw a

square notch $1\frac{3}{4}$ inches in diameter. Any egg small enough in diameter to enter this notch is a number two egg. One larger is a number one.

Nothing is more true than the following statement made by Poultry Success for March, 1916:

"That the average farming class needs some coaching upon the subject of 'Proper Housing and Handling the Farm Flock' is undebatable. It is nothing short of shocking to see the kind of quarters a great many farm flocks are housed in. No wonder farmers as a class are prompted to say 'there is no money in poultry keeping.' Fact is, farm flocks in a very large majority have a hard time to exist, to say nothing about laying eggs."

This department is anxious to see North Carolina foremost in the production of purebred poultry and more of it. We believe this can be attained by every one in the State who is interested in poultry to become a member of North Carolina Poultry Breeders Association. Membership fees are \$5.00 for life or \$1.00 yearly. Send your application to J. T. Bland, secretary-treasurer, Raleigh, N. C., and receive your certificate. Join today. Boost your State. It will do you good, and others as well. We recommend this to be the best possible step. Do it now.

VALUE OF GREEN BONE AS A PART OF RATION.

Every Poultryman Should Have a Green Bone Cutter—It will not only Add Materially to the Egg Yield, but will Save a Lot on the Feed Bill—Some Suggestions on Feeding It.

GREEN bone for poultry is fresh bone and meat as it comes from the butcher, cut up and given while it is sweet. There are two methods of obtaining green bone: one is to buy the waste product from your butcher and grind it in your own cutter; the other is to purchase the product ready cut for you. Green bone is given to balance the grain side of the ration, to give needed variety and to induce exercise. Many poultry raisers who are giving meat scrap, says Dr. N. W. Sanborn, ask, "Why bother with green bone?" It hardly takes the place of meat scrap for if given in quantities to supply the needed protein you will be giving too much waste fat with it. I would use it to help to maintain good health, to supply something that the stock wants, and as a food that does increase growth of chicks and get larger numbers of eggs from the layers.

In buying bones for hens get those of beef in preference to mutton or pork. Soft bones are easier to cut than the long flinty ones. The bones of the bankbone, the round

ends of the knee joint, make the best for our purpose. In buying bones you often get the trimmings of the meat as it is prepared for cutomers. Clear meat is worth more for feeding than is the fat. Often you must take just what is in the box or do without any. A good bone cutter is essential.

If you start out with the idea of making the supplying of cut green bone as a part of your animal food you will like it better. There are two plans of feeding that work out well in actual practice: first is to give all the green bone that the fowls will clean up in ten minutes, giving it as a noon meal three times a week; the other plan is to find out how many pounds are required in a week for this way of feeding, and then divide the amount into seven parts, one to be given each day.

Over-feeding of green bone will cause bowel looseness. Giving green bone that has spoiled is likely to make the birds ill, often in a way that points to limberneck-ptomaine poisoning. I like the plan of feeding three times a week, as then you prepare and give the whole amount of bone that you buy. The sooner you give green cut bone after it comes into your possession, the better for your flock. Age adds no value to green bone—it adds danger. Green cut bone helps to get winter eggs in time of high prices, and used in moderate quantity aids in maintaining vigor and strength. Look into the matter of green bone and good food for hens and chicks.—Exchange.

LEG WEAKNESS AND SOME OF ITS CAUSES.

By Careful Feeding and Proper Attention to the Young Chicks This Trouble can be Avoided—Free Range and an Unlimited Amount of Exercise are Good Preventatives.

By J. GAYLORD BLAIR.

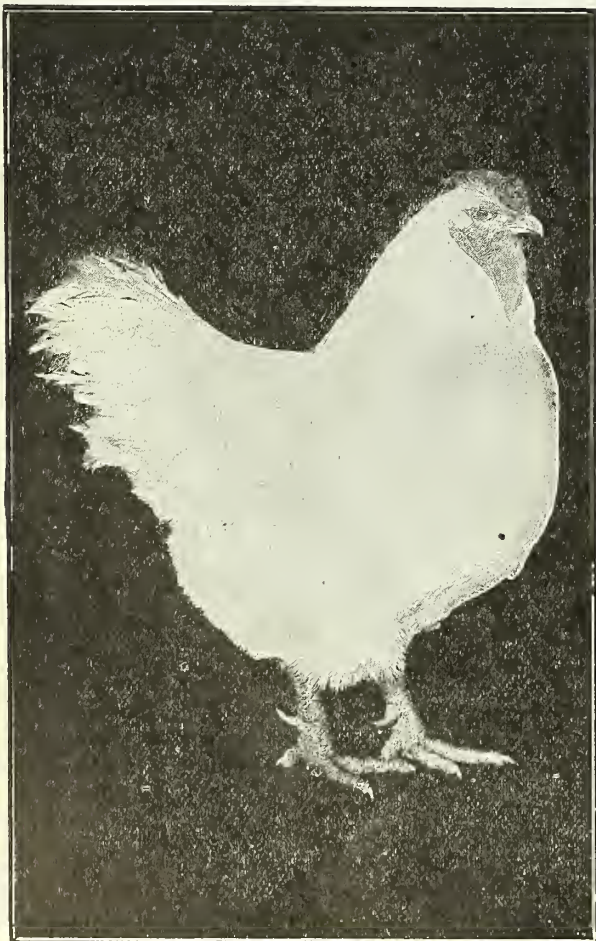
OVERFEEDING your birds and using bad methods of feeding is really worse in my opinion than not feeding enough. You can trace some very bad troubles to improper feeding and one especially is leg weakness. This is seldom seen in old birds but in young chicks up to six months of age and in the heavier breeds such as the Asiatics, American and English classes. Where you try to increase the size and weight of a bird at the expense of time you are bound to get into serious trouble and leg weakness is usually the result. When this is done the weight of the body is heavier than the legs are able to support and this is where the trouble first took its name.

By feeding large quantities of fat-producing food and not sufficient bone and muscle food without any exercise or large enough range for the chicks, this will also cause you serious trouble. A great many people have leg weakness in their flocks and they are at a loss to know what the trouble is or what it is caused from. But if they would stop and study the situation carefully they could easily discover the trouble.

Leg weakness is more common in brooder chicks than in chicks that are brooded by the hen and the only good reason we can give for this is that chicks brooded by the hen get a great deal more exercise. In brooding chicks by artificial means you should supply a deep litter of clean chaff for the little chicks to get the proper amount of exercise in and feed all grain in this litter. By keeping the little fellows busy all day long, working in a deep litter for their feed, you will have little chance of being bothered with leg weakness, and you will be laying a foundation for strong healthy chicks that will develop into valuable breeders and layers.

Leg weakness and rheumatism work a great deal alike, only in the former the joints do not swell and in this way you can distinguish one from the other. In leg weakness the muscles work to some disadvantage, the gait will be unsteady and the bird will walk a few steps and then stop and sit down as if tired. The first symptoms would hardly be noticeable to a stranger, but one who is accustomed to a flock will notice it easily. As the case develops, the bird will be noticed sitting down while eating. At this stage the bird seems to be in perfect health otherwise, but in a few days the feathers will begin to look bad and the bird will be so weak it cannot walk. It will refuse to eat and gradually grow worse.

The best treatment for leg weakness is to cut out all fat-forming food from the ration and compel the birds to take sufficient exercise, and prevent any new cases or further trouble by changing your methods of feeding and caring for the birds. If it is possible, give the birds free range, where they have a chance to exercise and roam at



Dixie Quality White Wyandotte, from the yards of Carrington, Jones, Buntyn, Tenn.

will, just as nature intended. If you are feeding only soft or mash food composed of fat-forming elements cut it down and feed more green food and grains in deep litter to compel exercise. Remember that leg weakness is brought on by overfeeding and this can be helped or prevented by careful feeding. It not only weakens the bird, but the vitality in their offspring.

RHODE ISLAND WHITES AS LAYERS.

A Trap-Nest Record of Fifteen Pullets Hatched June 1, 1915, That Started to Laying at the Age of Four Months and twenty-seven days—This Record Was Made in a Back Yard Where They Had Only a Limited Range.

By G. S. BOLLER.

IT WOULD perhaps be some task to tell of the sterling qualities of the Rhode Island Whites which have not already been placed before the reading poultry public. Their origin some years ago made them popular from the first wherever known and shown—they were not boomed by the shrewd breeders who realized the pos-

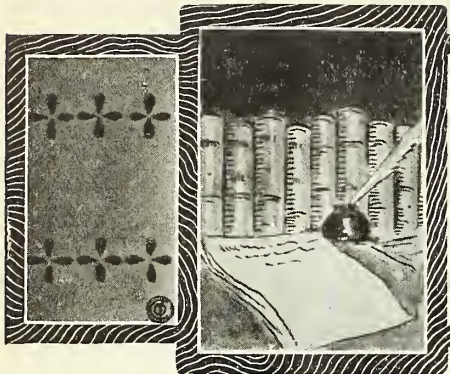
also gave the first plot ample time to get a new start. At twelve weeks they were transferred to a yard ten by fifteen feet until matured. This yard was sowed to rape beforehand and stood eighteen inches high, also plenty shade was provided, but was not of much benefit on account of such a rainy season, thereby keeping the yard damp and muddy most of the time. Their feed consisted of dry mash which was before them at all times in hoppers, and about one quart of scratch grain twice each day, morning and night. At the time they were hatched they weighed about two ounces, at four weeks thirteen ounces, at eight weeks two pounds and five ounces, at twelve weeks the largest one weighed four and a quarter pounds, at five months pullets weighed five to six and a half pounds; cockerels six to eight and three-quarters pounds. Their merits are not all combined in their early maturing qualities, as at the Mountain Grove, Mo., National Egg Laying Contest a pen of Rhode Island Whites were awarded the cup for most eggs laid during the month, seventy pens and twenty-six varieties competing. Wherever shown they are the attraction and sensation of the show room for there is not a more beautiful bird known to the American Standard of Perfection than the Rhode Island White. The reason they are not more extensively advertised is because the demand for them has been growing faster than the supply, and breeders find

																														Total for each bird		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Pullet	No.	1....	1		1	1	1	1	1		1		1	1	1	1	1		1	1	1		1	1	1	1	1	1	1	1	1	25
Pullet	No.	2....			1	1		1	1			1	1		1	1			1	1	1			1	1		1	1		1		20
Pullet	No.	3....	1		1		1		1		1		1	1		1	1			1		1		1	1			1			1	12
Pullet	No.	4....	1	1	1		1	1		1	1	1	1		1	1	1		1	1	1		1	1	1	1			1			21
Pullet	No.	5....	1	1	1	1		1	1	1	1	1	1	1	1	1	1		1		1	1			1							19
Pullet	No.	6....	1	1	1	1	1	1	1		1	1		1	1		1	1			1				1				1		1	18
Pullet	No.	7....	1		1	1		1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1			1	1	22
Pullet	No.	8....		1	1	1	1	1	1	1	1	1				1		1		1		1		1	1		1	1	1		1	19
Pullet	No.	9....	1	1	1	1		1	1	1	1		1	1	1			1	1	1	1	1	1	1	1			1	1			20
Pullet	No.	10....	1		1	1			1	1		1	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	19
Pullet	No.	11....	1		1	1	1		1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		25
Pullet	No.	12....	1	1		1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			21
Pullet	No.	13....	1	1		1		1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1				23
Pullet	No.	14....	1	1			1		1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1		22
Pullet	No.	15....													1				1			1		1	1	1		1		1		8
																														Total....	294	

sibilities of reaping a golden harvest. Instead, their surpassing qualities soon placed them in the front rank on their own merits. Today they are becoming the most popular and sought variety of thoroughbred poultry. They have withstood many knocks and jars which is evidence enough that every knock is a boost, and all this without the expenditure of much time or money. Still they forged ahead and came into their own as one of the leading varieties, and according to all reports very few breeders have much difficulty in disposing of their surplus stock. We must admit the reason for this unquestionable popularity is to be found in their all around qualities. They are first to produce eggs in any climate, first to mature as broilers, as at twelve weeks we have proven that we have a four and one-quarter pound chick, which in the open market June 1 will bring as high as \$1.40. We have proven to our own satisfaction that they are superior to the Reds and under same conditions have commenced laying earlier and laid more eggs than the Leghorns during the winter months. Much has been said and written about late hatched chicks, which has no terror for the Whites. The past season I had a desire for a special mating of eggs from special hens, which necessarily had to be accomplished after the breeding season had closed, after which I trap-nested my desired birds, and on June 1 recorded my hatch, which consisted of fifteen pullets and twelve cockerels. They were cared for in the ordinary way and at the end of four months and twenty-seven days these pullets commenced laying, of which I give below a trap-nest record for the month of November: By referring to the above table you can see at a glance that No. 15 did not commence laying until November 17, which necessarily makes this record much lower. While this is not a phenomenal record, it gives you an idea of what can be accomplished with them in a back yard under conditions adapted to the city or village fancier. While many fanciers have unlimited range for their chicks, these were reared in a back yard in a small enclosure three by six feet until twelve weeks old. About every third day their coop was moved about the width of it, thereby giving them fresh ground twice weekly, which

their surplus easily sold before the breeding season begins. Combining all these good qualities gives us the world's greatest general purpose fowl.





EDITORIAL CORRESPONDENCE

Splendid Reports from Our Advertisers.

WE ARE certainly glad to receive such good reports from our advertisers, telling us of their unusually good business during the past few months. Many of our readers will recall our predictions early last fall when he stated through these columns that this would be the best year ever experienced by poultrymen in the South. And we were right in our belief. We knew that the South would be in a good financial condition, and that every poultry breeder who went after the business would enjoy a good trade in both stock and eggs.

We are just in receipt of a letter from P. M. Beard, proprietor of Golden Rod Egg Farm, Hardinsburg, Ky., which reads as follows:

I hand you below copy of advertisement for May issue. Use only space called for in contract. Business has been unusually good this season, being limited only to our capacity. Will have to run far into the season to get chicks enough for our own use, so heavy has been the demand for hatching eggs and baby chicks. Letters from all quarters of highly satisfied customers make one feel that his efforts have not been in vain.

Mr. Beard has one of the largest Leghorn plants in the South, carrying from three to four thousand breeders the year around. He has sold so many eggs for hatching and baby chicks that he has not been able to hatch as many birds for his own use as he would like to and will be compelled to hatch far into the season in order to get out all of the youngsters he desires.

The breeder this season that did not enjoy a good trade has no one to blame but himself, as he did not put forth the right effort to get this business. The breeder who advertises is the one who reaps the harvest. And when we say advertise we mean that constant advertising and keeping your name before the public is the kind that pulls results. The summer months offer good prospects to the advertiser who advertises his surplus breeders for sale after he breaks up his breeding pens, also for selling early show birds for the fall fairs and shows.

We are also publishing another letter from one of our advertisers, Carington Jones, of Buntyn, Tenn., breeder of the Dixie strain of White Wyandottes. Mr. Jones wrote us last fall that he predicted a great season and we quote his letter (dated April 17) to us, as follows:

Enclosed please find check in payment for April advertising account. Below you will also find copy of ad I wish to appear in two inches of space in the May issue of the *Industrious Hen*. Would also like to call the attention of your readers to the fact that after May 1 all eggs will be half price and I will have some very choice breeding pens and single birds offered at real bargain prices. Cir-

cu'ar describing them will be ready to mail May 1.

Business has been unusually good with me all spring and I have been booked ahead on egg orders practically the entire spring in spite of doubling my capacity over last year, and I also have numbers of orders booked for delivery after May 1, from breeders who wish to take advantage of my reduced prices. This is as I expected it to be after my winnings in the leading shows last season, and goes to prove that I was not far wrong in estimating poultry conditions when writing for the *Industrious Hen* last fall.

We have received dozens of such reports from our advertisers recently, not only from breeders, but poultry supply manufacturers as well. The coming season promises to be just as good and we urge every one to hatch every chick they can possibly care for, for there will be a great demand and you will have no trouble in disposing of them at good prices. Get started now and reap the harvest that has been awaiting you for several years. It is true that the poultry business has not been as good as it should have been for the past four years, but it is coming back and now offers splendid opportunities. The two letters we publish here should be proof of what can be done at this time.

Experiment Station of Missouri Has New Director.

THE Missouri State Poultry Board met at the Experiment Station in Mountain Grove on March 23-24 and accepted the resignation of Mr. T. E. Quisenberry, who has been director of the station since its establishment five years ago, and elected in his stead Prof. C. T. Patterson, formerly pathologist at the institution. He has had quite a lot of experience as to how the work should be carried on at the station, and we feel that he will do a great work for the good of the industry in the State of Missouri.

Since resigning, Mr. Quisenberry has been chosen as editor of *Useful Poultry Culture*, of Kansas City, Mo. *Useful Poultry Journal*, of Kansas City, and *Poultry Culture*, of Topeka, Kan., have been consolidated and will be published at Kansas City in the future.

Use Zenoleum or Other Coal Tar Products in Preference to Creoline.

Poultrymen who are using Creoline today for disinfecting purposes are using an article that is too expensive, as it is costing them from \$8.00 to \$10.00 per gallon and the chances are it will go still higher on account of the war. Zenoleum or other coal tar products can be purchased for about \$1.50 per gallon, so you can see what a saving it will mean to you to use an American product and one that will give you better results. No doubt the

majority of the people who are using Creoline do not realize what it is costing them, and for this reason we want to mention it to our readers. A gallon of Zenoleum or other coal tar disinfectants will go a great deal farther than a gallon of Creoline, besides saving you about \$8.00 on each gallon, and has about three times the germicidal power as Creoline and other foreign products.

Free Eggs.

The members of the Gallia Poultry Association at Gallipolis, Ohio, are giving to the school children in the county eggs from their best matings. This year they expect to place two or three settings in each township. The children are to show one or more of the birds at the next show, January 15 to 20, 1917.

C. J. McCORMICK, Sec'y.

Suppose every poultry association in the country would co-operate with the school children and give them free eggs to get them interested in purebred birds. Can't you readily see what a great boost it would be for the industry as a whole? We would like to see this carried out and will possibly have more to say about it in some of our future issues.

Egg Laying Contest in Kentucky.

PLANS have been perfected for holding the big egg laying contest at the Kentucky Agricultural Experiment Station, beginning November 1st. Every breeder of poultry who thinks he has an egg laying strain of birds should write to the experiment station for a copy of the booklet giving the rules and regulations.

It is planned to start with fifty pens of five pullets each. Data will be kept in regard to the number of eggs laid and the feed consumed. The pens will be known by numbers or by the name of the exhibitor. If an exhibitor fears that his birds will not do well in competition with the various others he can have his pen entered by number and no one will know whose pen it is. This will serve to protect any one who so desires from publicity, but it is presumed that most exhibitors will desire that their birds shall be entered in their name.

The contest will be carried on at the farm operated by the experiment station. This farm is located in the outskirts of Lexington and is very close to a street car line, so that it will be accessible at all times to visitors. The reports will be sent each month to the newspapers and poultry journals.

The buildings and yards will be erected during the summer and will be ready to receive the birds October 15. Two weeks will be spent in getting the birds used to the quarters before the contest starts on November 1.



Under this heading "Pick Ups Here and There," we will give our readers each month clippings from our exchanges that we think will interest them.

Putting Chicks to Hen.

It is quite a simple matter to get a hen that has been broody to take to chicks, but perseverance is essential, and one must not be in a hurry. The modus operandi is best carried out at night as the hen sits on the nest. Try biddy with two or three chicks at the start and place them gently under her wing. Next encourage her to call them by giving her some seed. If they will not come out take them gently from under her wing and place them in front of her.

The chicks must be encouraged to run under the hen a number of times, and if she takes to them they can be left with her till morning, when oth-



White Wyandotte pullet, winner at the recent St. Louis Show. Bred and owned by Carrington Jones, Buntyn, Tenn.

ers can be added. Some broody hens will take to chicks quite openly, and many place the selected hen in a wire structure (after the nature of an exhibition pen) placing the chicks on the ground in front of her and scattering some small seeds near the hen to entice her to call the chicks. Where a hen has already brought off chicks no trouble should be experienced if others are added.

Pleasure With Fowls.

A man who once gets thoroughly into the work of breeding choice poultry is seldom willing to abandon it for some other pursuit, no matter how lucrative the new venture may be. The field it offers for the study of new breeds, the possibilities of combination and development and the broad opportunities for experiment are afforded in no other business. There is

a fascination in the production of choice specimens of the pure breeds which no other pursuits usually afford.

Turkeys.

Without doubt turkeys are the most delicate of all domesticated poultry; and those who have tried their hand at turkey rearing will not require to be reminded of it. A sudden cold wind or a light shower will often play havoc with them. Hence the necessity of giving them plenty of shelter. A good shed, open to the south, is about the best place for them until they are fit to care for themselves.

Alleged Poultry Swindler Gets Term.

S. A. Davenport, who operated as a poultryman at Brookville, N. J., received a sentence of one year and one day, it is reported, in the New Jersey penitentiary for fraudulent use of the mails. His alleged conviction was brought about by James T. Hortelyou, chief postoffice inspector. Davenport formerly operated a poultry business at Appola, Pa., under the name of the Kisk Poultry Yards. Numerous complaints, it is understood, were received against him at that place.

Former A. P. A. President Dead.

News has been received of the death of Charles M. Bryant, former president of the American Poultry Association, at his home in Boston, Mass. Mr. Bryant was at one time an en-

thusiastic Rhode Island Red breeder and did much for the Rhode Island Red Club. Mr. Bryant also had an active political career, and at one time was Mayor of Quincy.

We will give you a setting of eggs absolutely free, or a pen of birds, any variety, and start you in the poultry business. Let us tell you how.

BARRED PLYMOUTH ROCK EGGS

from Indianapolis winners, half price after May 15—\$1 and \$3 per 15. Satisfaction guaranteed.

A. S. WILLIAMS.

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Clayton, Indiana

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Box 1

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to

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Summer bargains in Ancona eggs and breeding stock, and Silver Campine eggs. Prices cut in half.

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REGAL FERTILITY

At this season of the year fertility is a most important question. The finest pen in the world would be of no value if you could not get fertile eggs. REGAL WHITE WYANDOTTES have always been bred for vigor and today I am getting results. Letters like the following are very pleasing:

Colorado Springs, Colo., March 18, 1916.

Mr. Jno. S. Martin,
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Dear Sir: The one hundred Dorcas White Wyandotte eggs purchased of you on March 1, 1916, proved to be 85 per cent fertile and I am greatly pleased with such fine results from eggs shipped so early. I remain,

Yours truly,
C. W. BROWN.

Later Mr. Brown reports a satisfactory hatch and says "they are the finest chicks I ever saw; they are surely doing fine and at four days' old they look and act like chicks two weeks' old." Are you having satisfactory results? If not, why not try the REGAL STRAIN? May is the best month of the year to hatch prize winners and I positively guarantee satisfaction.



Eggs for hatching from twenty beautiful exhibition matings, \$5 per 15; \$9 per 30; \$12 per 45; \$24 per 100.

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SOUTHEASTERN NOTES and COMMENTS

By D. R. McBRAYER, Mooresboro, N. C.

NEXT to April, May is the best month in the whole year to have your chicks come forth into the world. The weather conditions are ideal and the little chicks just grow like weeds. And, too, the sunshine is not hot enough to injure the little fellows as is the case later on. For all the smaller breeds April and May should be the big hatching months. May hatched Leghorns come into lay next November when eggs are scarce and high. Happy is the man who has a big bunch of pullets laying in November. Hatching and brooding equipment cost money and we cannot afford to let them lie idle eight or ten months of the year. Use them. That's the only way to make them pay you. Successful poultrymen hatch nearly every month in the year and therefore have something to sell all through the year, and thus the revenue never stops. Think this over and see if you can afford to stop hatching now.

Do not neglect to keep plenty of fresh water before the growing chicks at all times. The weather is growing warm and they will need plenty of it. The drinking vessels should be shaded so as to keep the sun from striking them. If you have a nice orchard, place the chicks out there under the trees. It's the finest place in all the world. They will chase bugs and insects, get the advantage of the shade and you will be surprised to see how they will grow. However, there are some who do not have this natural shade. When this is so, then some artificial shade must be provided, by means of board shelters. These chicks cost us money and we should do our best to raise them to marketable age. If we fail to do this our profits must suffer.

A good grain formula for feeding chicks from five weeks to four months of age is made as follows: 200 pounds wheat; 200 pounds cracked corn; 200 pounds clipped oats and fifty pounds beef scrap. Then provide mash in hoppers where they can get to it at will, and watch them grow.

There is genuine pleasure in caring for and watching your chicks. The true fancier is never quite so happy as when he is out among the growing youngsters, petting them, watching them grow and guessing which ones will win the "blue" at the early fall fair. The poultryman who does not get pleasure out of this and who is not found spending much of his spare time out among the chicks will not get the results out of the business that the more enthusiastic fancier will. The man who enjoys his work is the man who succeeds.

Recently we visited the plant of one of the largest poultry breeders in this section. We found hundreds of fine chicks being brooded under coal-burning colony hovers. Every condition

save one seemed ideal. And this one was a very important one—the lack of exercise. Not one particle of scratching material was to be seen on the floor. The chicks were allowed to eat all the grain without scratching for it, and sooner or later this man will have trouble with these chicks. How we hate to see a man go so near making conditions ideal and for the lack of a little litter fail to get the best results. A chick is never so happy or contented as when it is scratching away for its food. Little by little, mingled with exercise, they dig the grain from the litter and they do not find time for bad habits. Provide litter for your brooder chicks, is my advice. If you think different, then try it.

Look out for lice and mites this May month. Disinfect, dust, spray—yes, do all this, and then you will not have been too careful. All this precaution will not be too much to keep these pesky little pests down. If you are using hens for breeding purposes then you must be even more careful. Lice will just as surely kill your little chicks as would a shotgun, and they do it so cruelly. Little by little, day and night, they murder them. "Watch out for lice" should be your watchword.

Buy your eggs for hatching now. The risk of getting a good hatch is not as great now as earlier in the season. You must improve your flock and this is a mighty good way—also a cheap way. Many times one chick will be worth several times what one

pays for the whole setting of eggs. If you would keep up with the other fellow you must improve your flock. The world moves. Are you keeping up?

Champion Imperial Ringlet Barred Rocks

My pens are direct and bought of E. B. Thompson. Headed with champion birds just from his yard. Eggs from exhibition pen 15 for \$3.00, 30 for \$5.00; Second Pen 15 for \$2.50 for \$5; Utility, 17 for \$1.50 for \$2, 100 for \$3.50. MRS. CHAS. JEFFRIES, Route 1, Elizabethtown, Ky.

EGGS FOR HATCHING

From High Class White Plymouth Rocks and Single Comb White Leghorns of the best strains. Healthy, prolific layers. Eggs \$1.50 for 15. **CHARLES HOLDER, Bridgeport, Alabama**

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Young pigeons (squabs) bring 40 to 60c each when 3 to 4 weeks old. Big demand in city markets. Each pair of pigeons easily clear \$4 per year. Always penned up. Very little space and money needed to start. Free Book explains all. MAJESTIC SQUAB CO., Dept. 57 ADEL, IOWA.

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Read what Mr. Seay says about

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"Nox-Pox certainly does knock the chickenpox. I have used it on some very bad cases and it does the work every time."—J. M. Seay, Havana, Ill. If you are ever troubled with chickenpox and canker, send 50 cents for four-ounce bottle (enough for 25 cases). It will be sent to you postage prepaid.

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And if you are in the market for eggs, let us have your order at once. We have the goods. **S. C. White Leghorns and S. C. Rhode Island Reds.**

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SINGLE COMB ANCONAS

and eggs cheap balance of season and summer. To reduce my old stock I will sell one and two-year-old hens for \$1.25 each, if two or more taken. If cockerel 10 weeks old taken with two or more hens, \$3.00 for trio. Will ship when cockerel reaches the proper age. Eggs at \$1.50 per thirty; \$2.25 per fifty, and \$4.00 per hundred. Thoroughbred stock and fine laying strain. With each order directions for feeding for eggs, making medicines and tonics, and how to raise chickens to make money out of them that will bring you success if followed. Write for literature. Bank references given.

VINELAND YARDS

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TURKEY & WATER FOWL

DEPARTMENT

This department is conducted by Mrs. J. C. Shofner, Mulberry, Tenn., and any questions that you wish to ask will be answered through this department, if addressed to Mrs. Shofner. If a personal reply is wanted, enclose a stamped envelope.

HOW TO RAISE TURKEYS.

Some Sensible Advice to Beginners; Method of Feeding.

By Miss Carlie Kemp.

A GREAT many people think it almost impossible to raise turkeys, but it only requires a personal knowledge of the turkey's peculiarity to raise at least eighty per cent of the poults hatched. It is true they require careful attention for the first six weeks of their lives, but do not want codling or to be stuffed with food, but need to be kept out of the wet when they are young. And as they can live almost entirely on insects, they are very valuable on the farm.

If one has ever raised thoroughbred turkeys I don't see how he can go back to scrub turkeys, as they lack size and weight; besides, if one has a fine flock of purebred turkeys, any variety, they can easily dispose of them to other breeders of the same variety at prices far ahead of the market price. The Mammoth Bronze can certainly be termed "mammoth," not only more deservedly than other varieties, but better than any of the different breeds of poultry. They are the kings of poultrydom.

Every one has his own method of managing young turkeys. I can say that my way was changed considerably from what it was when I first began raising turkeys five years ago. Perhaps by the time I have raised them two or three more years these will have been changed for other and better rules. Overfeeding has always been my failure. It has taken years of experience to teach me that very little food is required when they could get plenty of insects, grass, etc., which they find in the fields and which is their natural food. A little turkey will eat whatever food is offered, even when their crops are apparently full to bursting. Here is my method of feeding:

No food is offered until the poults are about forty-eight hours old. They are always removed from the nest after they are hatched and placed in the sunshine, or in case there is no sunshine, in a basket near the stove. The first food given is hard-boiled eggs and cracker crumbs. This is fed alternately with rice cooked so it is tender and the grains separate, with clean, coarse sand, a sprinkle of black pepper, and a little powdered charcoal twice a week. For green food, I use onion tops and lettuce leaves chopped fine. Feed three times a day for the first month or so, then only twice. They are kept confined until strong enough to follow the hen. If the weather is good, they are usually

given free range at about a week or ten days old. Turkeys should never be compelled to roost on the same place each night as the odor from the droppings is poisonous. You will observe if a turkey hen has her liberty, she will never cause her brood to roost twice on the same spot, until they are large enough to fly up and roost above the ground. She may roost only a few feet away from where she did the night before. Always feed young turkeys to themselves so they can eat without being imposed on by the chickens and grown turkeys, or even the turkey hen which is carrying them.

There is much more that could be said but I think this is sufficient for the beginner to have some idea of turkey raising. A great many little details can only be learned by experience.

Hatching and Rearing Ducks.

Duck eggs may be hatched under common hens or in incubators and it requires four weeks to hatch them. The young ducks should be fed about five times a day for the first few weeks on a mash food consisting of wheat bran and hominy or corn meal with beef scraps and fine grit or sand added, all mixed together with water or skim milk. Later cracked corn, wheat or any reliable chick feed can

be added to the diet. If they do not have free range they should be given plenty of green food of some sort. When the ducks are weaned they should be transferred to colony houses large enough to accommodate flocks of not more than twenty. The houses should be opened in front and covered with half-inch wire netting to keep out all night intruders. The houses can be placed near or bordering a brook or pond, but this is not necessary, as they can get along without water to swim in if they have plenty to drink and dip their heads in.—Nashville Banner.

Run a small classified advertisement in the *Industrious Hen* for the next four months. The cost is small and you can sell your surplus stock at good prices. See our liberal offer on classified page.

EGGS FOR HATCHING

Genuine line-bred Single Comb Buff Orpingtons. 8 to 10 lbs. in 10 to 12 months. \$1.50 per fifteen; \$7.00 per hundred.

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Heavy laying strain, bred from the best blood lines in America. Three great pens mated. Eggs \$3.00 and \$5.00 per fifteen. Eggs from a fine utility flock \$1.50 per fifteen; \$10.00 per 100. One cock and two cockerels left for you on approval. Price \$5.00 and \$10.00. We please them all.

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CEDAR HILL POULTRY FARM

H. A. SCOTT, Proprietor.

CUMBERLAND CITY, TENNESSEE



By F. H. REILS, Tampa, Fla.

Cornering the Early Markets.

BROILERS, fryers and roasters, each and all of them may be supplied here at will. What an advantage for any section to control! Do you realize what this means to us? I am sure not, for otherwise hundreds would now be catering to this demand, which is the very cream of the business. We are all acquainted with the value of the early market for broilers. We have paid the price and we have wondered why more people did not go in to control this trade. The time is ripe. If the breeder of Tennessee, Alabama, and Georgia can ship his products these great distances and make a profit, how much greater profit is possible to the man in this section, who has every advantage of climate, feed and nearness to the best markets in the country.

And here another factor enters in—that of furnishing the exhibition stock for the early shows, and the eggs of strong fertility for early hatching. Here we have a practical monopoly. In the past two weeks I have had several letters from Northern breeders who have called my attention to the advantages of this location for making this one of the most profitable branches of the business. Show specimens command a money value that may seem out of all reason to the uninitiated, but there are hundreds of exhibitors that are paying anywhere from \$25.00 to \$500.00 each for birds that can win at the leading shows of the country, and this section should produce them. The early fall fairs give us this opportunity. Northern breeders, because of the lateness of their season, cannot get started early enough to bring their birds up to the required weights by October, when most of the fairs are in full swing. Florida breeders have it in their power to “corner” this business. I don’t mean to convey the impression that every man can raise a prize winner, but nature has provided us with the climatic conditions necessary, and the balance is left to our intelligence and persistency. The grandest plumage is noted in birds of tropical origin. Why not take advantage of this fact to produce at least a part of the exhibition specimens in this semi-tropic region? I am sure that as soon as our people recognize

the superiority of location and climate this will become one of the best paying branches of the business.

Many people are of the opinion that because insect life is abundant in this State, that successful poultry breeding is problematical. This is a matter entirely within control of the breeder. If he is the kind of a man who would succeed elsewhere, his chances are doubly good here. Mites, lice, chiggers, etc., are no more abundant here, under right methods of poultry keeping than they are elsewhere. We have them here, as we have them in every State in the Union, but actual experience has proven that where birds are kept in environments suited to them and for their best advantage, there will be no difficulty in keeping them under control. The experience of successful breeders throughout the State bears out my own in this regard. The man who will give his birds that care and attention necessary to success will not be troubled to any great

extent. No other should undertake the work.

The writer has bred and raised purebred poultry for twenty-five years or more. He is familiar with condi-

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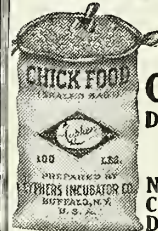
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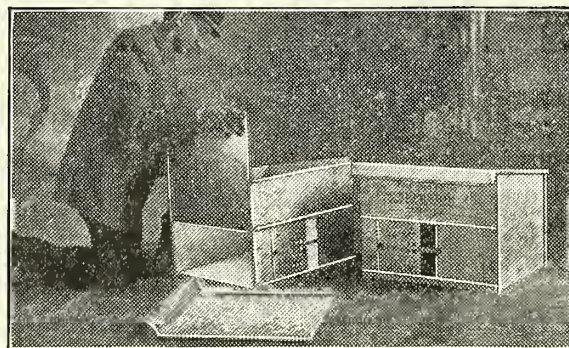
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Fully 54 per cent of all 1914 hatched females on hand January 7, 1916, averaged 202 eggs each in one year.

Eggs for hatching 10 cents each; \$4.00 per 50; \$7.50 per 100; from selected matings \$3.00 per dozen. Circular of facts free.

DAY-OLD CHICKS

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THE DELPHOS Superior Brooder Coop

Made of galvanized material. Rat-proof—sanitary—perfectly ventilated. Every part slides into place, fits snug and no tools but the two hands are required to set it up. Collapsible and easily stored when not in use. Special prices to agents. We can use a good agent in every locality. Write for particulars.

THE DELPHOS MFG. CO.

Dept. I. H.

Delphos, Ohio

WINNERS

On Buff Orpingtons at the Armory Show at Louisville, first pullet, third young pen. Kentucky State Poultry Show, at Lexington, first hen, first cockerel, first pullet as well as National Buff Orpington Club's Ribbons for best hen, best cockerel and best pullet in the show. Eggs from these winners at \$5.00 for fifteen. Eggs from other pens \$1.50 and \$3.00 per setting. I also have some good breeding birds in Reds (Single Comb) at give-away prices. Write for what you want. Also four yearling cocks in White Orpingtons cheap. Satisfaction guaranteed in anything I sell.

DANVILLE

S. M. HARBISON

KENTUCKY

Just say you saw it in THE INDUSTRIOUS HEN.

tions as they apply to Florida, in general, and to south Florida in particular. He has raised many thousands of birds here and has proven to his own satisfaction that conditions are ideal in many respects. The disadvantages are no greater than in any other section, and they are counter-balanced in climatic advantages that are generally conceded.

"I Make a Living from Chickens Alone."
Sarasota, Fla., Oct. 22, 1915.
Sarasota-Venice Co.,
Sarasota, Fla.

There's money in chickens here if a man will take care of them. I have been raising chickens for five years, this month, and it is the only way I make my living. My chickens have made my living, their own feed, cow feed, horse feed and a surplus besides.

I am now in a position to raise my feed and I'll have no expense except my labor and cost of bran and shorts. I'm raising rice, Kaffir corn, milo maize and ferrieta (a member of the sorghum family). If you keep your place clean, give Epsom salts and sulphur from June to September, give pure water and let them range all the time, you'll have no trouble from disease.

In the morning I give bran and shorts and cottonseed meal, corn meal and sometimes a little ground oats mixed with sour milk. The cottonseed meal and the milk take the place of meat. This increases the egg output. I let them range on the native grasses all day long. Then at night I feed Kaffir corn, cracked corn, sunflower seed, oats and wheat. They pick their green feed on the range. The breeders, when I keep them closed up, I feed rape and lettuce, beets and cabbage, which I raise myself.

The hens commence to moult along about the last of July to the first of September and run six or eight weeks. They then commence to lay again and lay their heads off all during the winter at the time of best prices. If you hatch your chickens out in January and February they commence laying early in November and keep it up all winter. I don't advise keeping chickens over two years unless its an exceptionally good breeder. You can use incubators or buy day-old chicks and use inexpensive fireless brooders. There's money in chickens, for I have made and am now making it.

GEORGE PLACE.

Never Lost a Chicken from Disaese.
Bee Ridge, Fla., Oct. 19, 1915.
Sarasota-Venice Co.,
Sarasota, Fla.

Gentlemen: I selected Rhode Island Reds for my chicken business because I find these consistent layers. I get eggs all the time. I let my chickens range until about 8 o'clock in the morning and then I feed some oats and sometimes a little scratch feed. At noon, I give a moist mash of bran shorts, cottonseed meal and corn meal with a little charcoal and a little lime. I keep before them all the time oyster shells, grits, charcoal and dry bran.

For green feed I plant chard, crimson clover, rye, collards, radish and South American peas. I also let them have free range, consisting of the native grasses on an acre and a half of cleared land. Once a week I give a little sulphur and salts and a little permanganate of potash in the water. I have had no disease whatever and have never lost a chicken from this cause. I haven't seen a louse or a mite since I have been here.

In Ohio I raised chickens about six years and my trouble up there was diarrhea. I like this better than Ohio to raise chickens. They don't take any bother whatever in the winter to what they were up North.

My broilers I sell at one price, 25 cents per pound. At eight or nine weeks old they weigh on an average of over two pounds apiece. My young spring roasting chickens of about four pounds I get the same price for. The fact that so many tourists come here in the winter holds up the local market for chickens and eggs.

The investment required for raising chickens here is much smaller than in the North. You don't have to build as strong houses. You can just build a frame with a leak-tight roof, screen it and arrange to drop gunny sacks on windward side.

For 400 chickens the plant, outside of the chickens and the land, wouldn't cost a hundred dollars. I hatch my chickens in a little frame made of eight 1x12 pieces, 5½ feet long, set practically on the ground with a hinge cover for each nest. This provides a separate runway for each setting hen. My brooders I make of tomato boxes or soap boxes, invested with a door cut in the end, and with

SPAIN'S BARRED PLYMOUTH ROCKS
AND MAMMOTH BRONZE TURKEYS

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Big May Sale Heavy Laying, Trapnested English White Leghorns. Tom Barron Strain—Hens \$1.25; pullets \$1.50; cockerels \$3 up (imported). Guaranteed hatching eggs \$7 per 100; \$1.50 per 15. Special Offer for May—Pen of 6 big snow-white yearling hens with records of 243 to 287 eggs a year, and one genuine Tom Barron cockerel, \$12.00. Act quick. Hatching Eggs—From my prize winning heavy laying Rhode Island Whites, \$3 and \$5 per 15. Fine breeding pens, pairs and trios at low price. These birds are acknowledged the quality flock of America. Mrs. Bertha Bottenus, Breeder and Importer, 89 Burton Avenue, Box H, Cleveland, Ohio.

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Have 100 white egg Runners for sale at \$1 each. Order from this ad. Shipped on approval. S. C. Buff Orpington eggs 12 and 30 cents each. S. C. Whites at 15 and 25 cents each. Runners at 12 and 25 cents each. Write today for mating list and special offer on how you can pay for eggs after hatching. All orders given prompt attention and safe arrival of eggs guaranteed. W. L. DOOLITTLE, Stevens Street, Fairmont, West Virginia

strips of outing flannel just long enough to touch their backs, suspended from slats on the top. That is all that is necessary in this country and makes the outfit very inexpensive. The main thing is to give plenty of good fresh water and keep everything clean.

Four hundred hens should produce 60,000 eggs here. Deducting what you set, you ought to get a gross of about \$1,200.00 a year, and it costs \$1.28 to feed a hen here, if you buy all your feed. Even if you raise all your own green stuff it will cost you about \$1.00 per head. This will leave you a net profit of from \$680.00 to \$800.00.

I have raised chickens in Colorado and Ohio, but I have had the best success with them here at Bee Ridge. One day's exposure to cold up there will make all the hens stop laying and that cuts off the profit. I consider that this is the best place to raise chickens if a man will take care of them. Yours truly,
G. W. Wilkinson.

The Sarasota Times of March 11 printed this comparison of local feed prices with those of a retail grain dealer in Joliet, Ill. Markets would change during the year, but this shows the very slight difference in cost:

	Sarasota, Fla.	Joliet, Ill.
Oats	\$2.20	\$2.00
Corn	1.90	1.50
Poultry feed	2.20	2.10
Alfalfa feed	1.70	1.70
Bran	1.75	1.60
Middlings	1.80	1.60
Wheat	2.75	3.00

S. C RHODE ISLAND REDS AND INDIAN RUNNER DUCKS
Eggs for hatching from our best birds at \$1.50 per 15. Duck eggs \$1 per 13. Write us your wants. We can please you. Address
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This department is conducted by the Editor, 901-902 Great Southern Building, Louisville, Ky. If your birds are sick, write him. He will tell you through this department where your trouble lies. If you want a personal reply, send stamped envelope.

Good Average Egg Yield.

Editor Industrious Hen,
Louisville, Ky.

Dear Sir: What do you consider a good egg yield for a hen in twelve months? I have a flock of ten White Wyandottes that averaged for the past year 196 eggs each, which I consider good. Of course this is not a record by any means, but if you could get this average from larger flocks such hens would net you a handsome profit. I like the Industrious Hen and think it a good paper. Have been a regular subscriber for a number of years. Yours truly,
Tampa, Fla.

J. B. W.

ANSWER. I would consider this record good and any hen that lays around 200 eggs in 365 days will net any poultryman a nice profit. Your flock of Wyandottes should be used as breeders because if your ten birds will make such a good average, if they are mated to a good cockerel that has been bred from a flock of good layers, it is almost sure that the young pullets hatched from these birds will make excellent layers.

Dark Comb.

Editor Industrious Hen,
Louisville, Ky.

Dear Sir: I would like to have you tell me what to do for a cockerel I have that has a dark comb and it seems like he is getting worse all the time. This is a valuable bird, having won first at the recent Jacksonville show. Please answer by return mail. Yours truly,
Jacksonville, Fla.

H. W. H.

ANSWER. Give the cockerel a teaspoonful of muriate of ammonia in a pint of water and do not allow any other water for the bird to drink for several days or until the comb gets back to its natural color. This bird has some kind of liver trouble and possibly if you would give it one of Carter's Little Liver Pills it would be found helpful. Feed only soft food and place in dry coop for several days. Give plenty of green food.

Leg Weakness.

Editor Industrious Hen,
Louisville, Ky.

Dear Sir: We have a brood of chicks that have leg weakness and I would like to have you give me some information on this trouble in your next issue. The chicks are being brooded in an artificial way. The brooder is a hot water top heat. I have heard that bottom heat in the brooder would cause leg weakness. Do you think it would? Please answer through the May issue of the Industrious Hen and give me all the help you can. Very truly yours,
Augusta, Ga.

H. G. B.

ANSWER. Leg weakness as a rule is caused by overfeeding. If you will make the young chicks work and exercise after all the feed you give them you will not be bothered with leg weakness. This trouble is caused by overfeeding and lack of exercise. It is more common in brooder chicks than chicks that are hatched and brooded by the hen. Make the chicks scratch and work in deep litter and if possible give them all the range you can. Cut out all fat-forming food from their ration.

Indigestion.

Editor Industrious Hen,
Louisville, Ky.

Dear Sir: I am in trouble with my poultry. On February 27, noticed one Leghorn pullet sitting around sticking her head up as if something in throat. She died that night. March 2, I noticed a White Leghorn cockerel moping around. Caught him. Some small lice on him. Dipped him in weak solution of Kresol Dip and put him in coop. At noon he was found dead. March 5, found a setting hen off next and dopy, comb little dark, slightly soiled behind. Voided little greenish stuff. I gave her some of Conkey's cholera and indigestion remedy. Don't know result yet. All three of these fowls had darkish combs and little diarrhoea. Have sixty grown fowls, roost in three large houses and on free range. Feed in morning mash as follows: one-third prepared laying mash (bran shorts, meal, meat, alfalfa meal, linseed meal), one-third bran, one-third shorts and little Conkey's meal. At night whole corn about five nights in week and rest of time boiled oats or wheat. Grit, charcoal and oyster shell in hopper. Opened the dead rooster and could find nothing. Seemed a little bit large and had a small dark strip along one lobe. Lower part of intestines greenish looking, unless I bursted gall bladder. I am much worried. Please reply by mail. Respectfully,
Angie, La.

F. B. BARRON.

ANSWER. Just as soon as you notice a bird with a dark comb, place in coop away from rest of the flock and give a teaspoonful of muriate of ammonia in a pint of drinking water. This will usually straighten the bird out all right. As to the birds having a diarrhoea, I am of the opinion that it is caused by your method of feeding. Cut down your green food and beef scrap or green

bone and study your methods of feeding carefully and you can possibly locate your trouble. You should have a copy of "Poultry Diseases and Their Remedies," which treats on all diseases. We will send you the book and the Industrious Hen one year for 75 cents. Book alone, 50 cents postpaid.



RAISE TWO CHICKS

For every one you counted on.

Reduce the awful death rate. Don't spend good money and time to hatch chicks and then lose them before you get any profit.

CONKEY'S LICE POWDER dusted on the setting hen gets the body lice before the chicks hatch out, and keeps them off the delicate chicks. 25c.

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CONKEY'S GAPER REMEDY should be ready against the appearance of the choking gape worm. 25c, 50c.

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at \$2.00 per setting of 15. Two settings for \$3.50. Also have one dozen Blue Andalusians. Will close out at one dollar each.

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R. No. 1

Wilmore, Kentucky

CARE AND HATCHING OF TURKEY EGGS.

THE eggs should be gathered every day, kept in a cool place and turned once a day until they are set. It is a good plan to mark each egg with the date when it was laid. A turkey hen will lay from fifteen to eighteen eggs and then become broody. They are easily broken from setting, and by doing this one secures an extra clutch of eggs, as she will lay again in a short time. The turkey may be allowed to hatch her own eggs or they may be hatched with common hens. The turkey hens seem to understand the weakness of their poults better. She moves about slowly, brooding often, while the chicken hustles about and soon tires out the tender poults. If chicken hens are used for hatching it is a good plan to set them at the same time with the turkey hens, to whom all the poults may be given. Set the turkeys in coops and make the nests by scooping out the earth two or three inches. This prevents the eggs from rolling out and gives the required moisture. Straw and chaff make good nesting



Mrs. Bertha Bottenus

Proprietress of the Puritan Poultry Yards, 89 Burton avenue, Cleveland, Ohio, breeder of Rhode Island Whites and English White Leghorns, who was appointed a member of the official committee at the egg laying contest to be held at Columbus next fall.

material, sprinkling a good lice powder throughout the nest.

Do not move the hen to the new nest until she has set two or three days on the old one, and then carefully remove her at night and place her on the nest. After the first day you will have little trouble about them going to the new nest. Eighteen eggs are sufficient to set under turkey hens. The coops should be open every day so the hens can leave the nests and return at will. Place the water and feed where they can get it at any time.

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Eggs, chicks, breeding stock and 8-weeks-old pullets from hens with records up to 264 eggs. Prize winners at largest shows. Prompt shipment, prices low, quality guaranteed. White Leghorns are best for eggs. We raise thousands. Free catalogue and price list gives particulars. Write for it now. Sixteen years' square dealing—thousands of pleased customers. Ferris Leghorn Farm, 922 Union, Grand Rapids, Mich.

STATEMENT OF OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912, OF THE INDUSTRIOUS HEN, FOR APRIL.

State of Kentucky,

County of Jefferson.

Before me, a Notary Public, in and for the State and County aforesaid, personally appeared Collins Young, who having been duly sworn according to law, deposes and says that he is the Business Manager of the Blair-Young Publishing Company, Industrious Hen, etc.

Publisher—Blair-Young Publishing Co., Louisville, Ky.; Editor—J. Gaylord Blair, Louisville, Ky.; Managing Editor—J. Gaylord Blair, Louisville, Ky.; Business Manager—Collins Young, Louisville, Ky.

That the owners are: J. Gaylord Blair, Louisville, Ky.; Collins Young, Louisville, Ky.; Jno. G. Blair, Carlisle, Ky.; J. W. Crudington (Trustee), Knoxville, Tenn.; Jno. Guigliano (Trustee), Louisville, Ky.

That the known bondholders, mortgagees and other security holders owning or holding one per cent or more of total amount of bonds, mortgages, or other securities are: None.

Sworn to and subscribed before me this 24th day of March, 1916.

THOS. J. KNIGHT.

My commission expires March 8, 1920.

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are better than ever, and we will sell eggs the balance of the season at \$1.00 per 15. Stock and Baby Chix a matter of correspondence. Pineview Poultry Yards, Algood, Tenn.



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The Agricultural, Farm Demonstration, Live Stock, Dairy, Poultry and Horticultural Agents will help the new settler or the farmer already located in solving the problems of proper crops, soil treatment, methods of cultivation and other matters relating to crop improvement and crop making.

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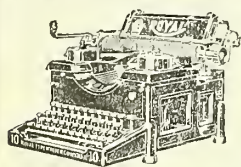
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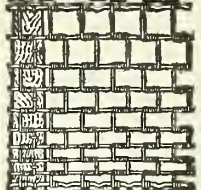
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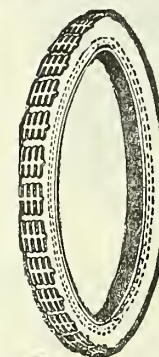
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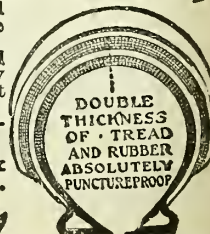
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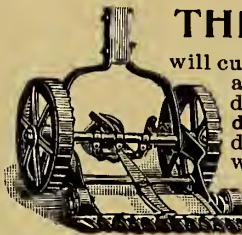
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